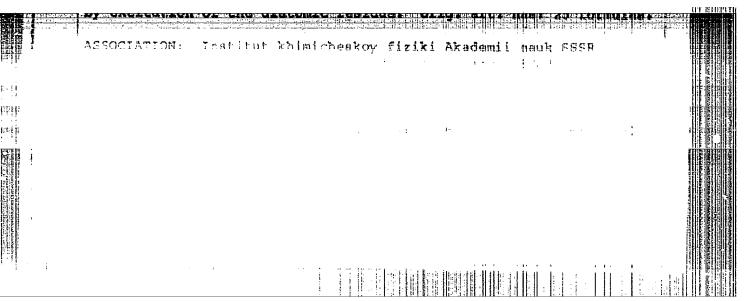
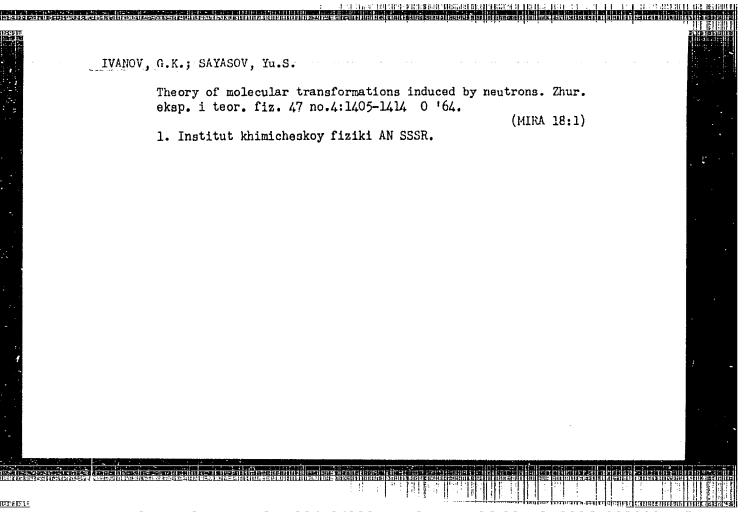


APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619030001-1"





L 06600-67 EWP(j)/EWT(l)/EWT(m) RM/GD
ACC NR: AT6017649 (A) SOUNDE COMMENTATION OF THE PROPERTY OF THE PROPERT

SOURCE CODE: UR/0000/65/000/000/0298/0306

AUTHOR: Ivanov, G. K.; Sayasov, Yu. S.

ORG: none

TITLE: Possibilities of the method of molecular neutron spectroscopy

SOURCE: AN SSSR. Institut geokhimii i analiticheskoy khimii, Yadermaya khimiya (Nu-clear chemistry). Moscow, Izd-vo Nauka, 1965, 298-306

TOPIC TAGS: neutron spectroscopy, neutron cross section, neutron energy distribution, molecular structure, neutron scattering

ABSTRACT: The article discusses in detail several new possibilities of the method of neutron spectroscopy using neutrons with energies of the order of the energies of the chemical bond (E_0 1 to 10 electron-volts). These possibilities are based on earlier results obtained by the authors (ZhETF, 1961, 40, 513; 1963, 44, 573; 1963, 45, 1456) and are in addition to the possibility of measuring the spectra of energy and angular distributions of scattered neutrons with the required accuracy. The applicability of neutron spectroscopy for investigating the structure and properties of molecules was of determining other molecular parameters, such as the force terms, frequencies of oscillation, constants of interaction, diagonal terms, bonds, intramolecular distances,

Card 1/2

and other factors descriptive of molecular phenomena in such molecules as N₂O, CO₂, NH₃, PH₃, C₂H₆, CH₃OH, and other hydrocarbons. These quantities are determined from knowledge of the cross sections of neutrons colliding with molecules and other pertinent information, such as neutron energies, basic theoretical and experimental relations, etc. It is concluded that various molecular effects, such as ionic bonds, can be profitably studied by extension of the method of neutron spectroscopy. Orig. art.

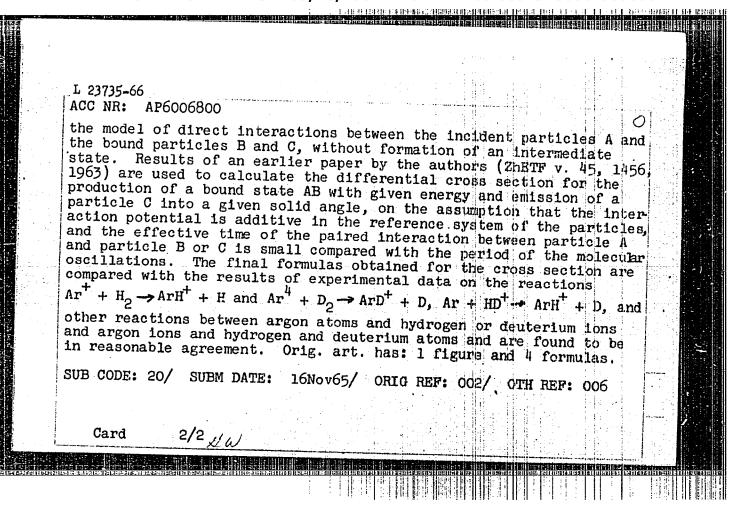
SUB CODE: 20,07,14/ SUBM DATE: 03Nov65/ ORIG REF: 006/ OTH REF: 004

Card 2/2 m/s

L 06600-67

has: 9 formulas.

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٠.,	
	L 23735-66 EMT(1) IJP(c) AT ACC NR: AF6006800 SOURCE CODE: UR/0386/66/003/001/0040/0044
	AUTHORS: Ivanov, G. K.; Sayasov, Yu. S.
	ORG: Institute of Chemical Physics, Academy of Sciences, SSSR (Institut khimicheskoy fiziki Akademii nauk SSSR)
	TITLE: Direct atomic-molecular or ionic-molecular reactions
	SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 1, 1969, 40-44
	TOPIC TAGS: ion interaction, molecular interaction, particle interaction, differential cross section, argon, hydrogen, deuterium
	ABSTRACT: The authors point out that several recent experiments by various investigators on <u>ion-molecular reactions</u> of the type A + BC - AB + C(A = atom or ion, BC = diatomic molecule or ion) cannot be interpreted on the basis of theories involving the use of the intermediate-state concept, since the relative-motion energy in these experiments was close to 10 eV, at which such theories are not valid. They therefore present the results of theoretical calculations using
	Card 1/2
111	



<u>L 24398-66</u> EWT(m)/EPF(n)-2/EWA(h)	
ACC NR: AP6010995 SOURCE CODE: UR/0056/66/050/003/0726/0	0737
AUTHOR: Ivanov, G. K.	2
ORG: <u>Institute of Chemical Physics Academy of Sciences SSR</u> (Institut khimicheskoy fiziki Akademii nauk SSSR)	3
TITLE: On elastic and quasielastic scattering of neutrons by molecules	
SOURCE: Zhurnal eksperimentalinoy i teoreticheskoy fiziki, v. 50, no. 3, 1966, 726-737	
TOPIC TAGS: elastic scattering, neutron scattering, molecular interaction, small angle scattering, potential scattering	
ABSTRACT: The purpose of the investigation was to investigate the retically the scattering of neutrons by molecules at relatively smenergy and momentum transfers, where the principal role is played elastic processes or transitions between neighboring rotational enlevels. The distance between the rotational levels of the molecul assumed to be much lower than the energy of its thermal excitation	nall by nergy
Card 1/2	

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619030001-1"

L 24398-66 ACC NR: AP6010995 quasiclassical representation of the rotational wave functions is used to calculate the cross sections for the scattering of the neutrons by the molecules for this case. Such an approach simplifies the calculations and involves the assumption that the molecules rotate quasiclassically in the initial and in the final states. Separate calculations are made for diatomic and linear monoatomic molecules, for molecules of the spherical-type and for molecules and molecular groups having a preferred rotation axis. The case of the constrained internal rotation of molecules is also considered. It is shown that the constraining potentials can be determined from the dependence of the quasielastic cross section on the energy transfer, and some conclusions can be drawn concerning the shape of the potentials at certain temperatures. The author thanks Yu. S. Sayasov for interest in the work and for a discussion of the results. Orig. art. has: 2 figures and 41 formulas. SUB CODE: 20/ SUBM DATE: 010ct65/ ORIG REF: 002/ OTH REF:010

L 14680-66 EWT(m)/EPF(n) ACC NR: AP6008258 LUTHOR: Ivanov, G. K.; Say	Source code:	IR/0089/65/019/002/01	83/0184
RG: none			33
ITIE: Resonance neutron-m	olecule interactions 19,50	; 44	8
once: Atomnaya energiya,	V. 19. no. 2 1065 100 1		
nteraction, gas, molecule,	nce, neutron scattering, n	autrom absorption, ne	utron
STRACT: Cross sections of molecules were estimated results hold for molecular quids and crystals, in the layed rotation frequencies equencies. Ordinarily successy dependence of the tot the resumence properties.	neutron resonance scatter considering that the molec gases. However, they also case, in which the molecu are smaller in comparison h conditions are observed al cross section was compa	ring and absorption bules are free. The can be used for molecular oscion to the molecular oscion heavy molecules.	y nuclei obtained scular oribed by dillation
ith and E ₀ is the resonance 3 CODE: 20 / SUBM DATE:	anone l'emprend	9 formulas. MA7	0.401

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619030001-1"

ACC NR: AP6035124 SCURCE CODE: UR/0053/66/090/001/0047/00847 AUTHOR: Ivanov, G. K.; Sayasov, Yu. S. ORG: Institute of Chemical Physics, AN SSSR (Institut khimicheskoy fiziki AN SSSR) TITLE: Interaction of neutrons with molecules SOURCE: Uspekhi fizicheskikh nauk, v. 90, no. 1, 1966, 47-84 TOPIC TAGS: neutron interaction, molecular interaction, molecular structure, fast neutron, neutron spectrum, neutron scattering, scattering amplitude ABSTRACT: This is a review article devoted essentially to a systematic development of the theory of scattering of fast neutrons by molecules, with special application to the determination of the properties and structure of molecules by means of the fastneutron spectra. It is based essentially on earlier papers by the authors (Atomnaya energiya v. 19, 183, 1965 and preceding papers). The exposition is limited to the study of spectra of neutron scattering by molecules, and does not include phenomena of chemical transformations under the influence of neutrons. The survey also presents the theory of scattering of slow neutrons by molecules. Since the scattering amplitudes of fast neutrons depend strongly on the energy and exhibit resonances, the theory is presented from the very outset for the general case of variable amplitudes for neutron-nucleus scattering, using the formalism of the impulse approximation, which is itself described in some detail. A classification of the processes of scattering of neutrons by chemically bound nuclei, as a function of the character of the neutron-Card 1/2

F= 197

UDC: 539.121.7 - 539.125.5

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619030001-1"

ACC NR: AF6035124

nucleus interaction and of the neutron energy, is presented. The section headings are: I. The impulse approximation method as applied to the scattering of neutrons by chemically bound nuclei (1. Cross sections for molecular transitions under the influence of neutrons in the impulse approximation. 2. Presentation of the cross sections for scattering and absorption of neutrons as averages over the initial state neutron scattering cross sections with classical treatment of rotational transitions of the molecule. 4. Scattering of neutrons with energies less than the energy for excitation of molecular vibrations. 5. Scattering of neutrons accompanied by vibrational excitation of the molecule). III. Scattering of fast neutrons (6. Approximation by free particles with a momentum spread. 7. The case of potential neutronnucleus scattering. 8. Case of variable neutron-nucleus scattering amplitudes).

SUB CODE: 20/ SUBM DATE: 00/ ORIG REF: 027/ OTH REF: 049

Card 2/2

IVANOV, G.K.; SAYASOV, Yu.S.

Theory of the vibrational excitation of molecules in the impulse approximation. Dokl. AN SSSR 154 no.6:1314-1317 F '64. (MIRA 17:2)

1. Institut khimicheskoy fiziki AN SSSR. Predstavleno akademikom V.H. Kondrat'yevym.

IVANOV, G.K.; SAYASOV, Yu.S.

Scattering theory in the impulse approximation. Zhur. eksp. 1
teor. fiz. 45 no.5:1456-1466 N '63. (MIRA 17:1)

1. Institut khimicheskoy fiziki AN SSSR.

ACCESSION NR: AP4019971

S/0020/64/154/006/1314/1317

AUTHOR: Ivanov, G. K.; Sayasov, Yu. S.

TITLE: Theory of vibrational excitation of molecules in the momentum approximation

SOURCE: AN SSSR. Doklady*, v. 154, no. 6, 1964, 1314-1317

TOPIC TAGS: vibrational molecular excitation, momentum approximation, collision excitation, excitation temperature dependence, vibrational relaxation, molecular vibrational transition

ABSTRACT: The general theory of scattering in the momentum approxima-

tion was developed by the authors in a previous paper (Zh ETF 45, no. 5 (1963)) as a new formulation of the method suggested by G. Chew (Phys. Rev. 80, 196 (1950)). It can be used for the computation of the probabilities of vibrational transitions in molecules which correspond to small frequencies. The subject of the present paper is the reformulation of the method for this purpose. Formulas are derived for the cross sections for the excitation by a collision with an atom.

Card1/2

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ACCESSION NR: AP4019971

The time of the vibrational relaxation is found to have a minimum which, in the case of I, + He, is at 2100K. The theory developed for molecules should be, in principle, applicable to polyatomic molecules. The results are compared with those of other authors.

"The authors are grateful to V. N. Kondrat'yev for a discussion."

ASSOCIATION: Institut khimicheskoy fiziki Akademii Nauk SSSR (Institute for Chemical Physics, Academy of Sciences SSSR)

SUBMITTED: 05Sep63

DATE ACQ: 07Feb64

ENCL: 00

SUB CODE: PH

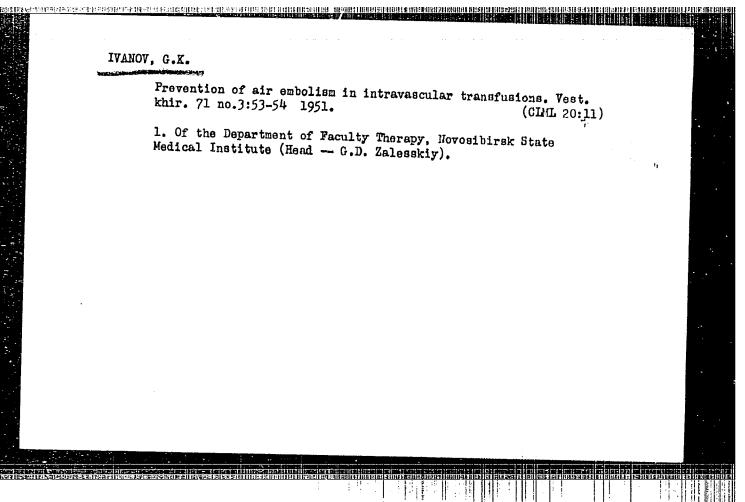
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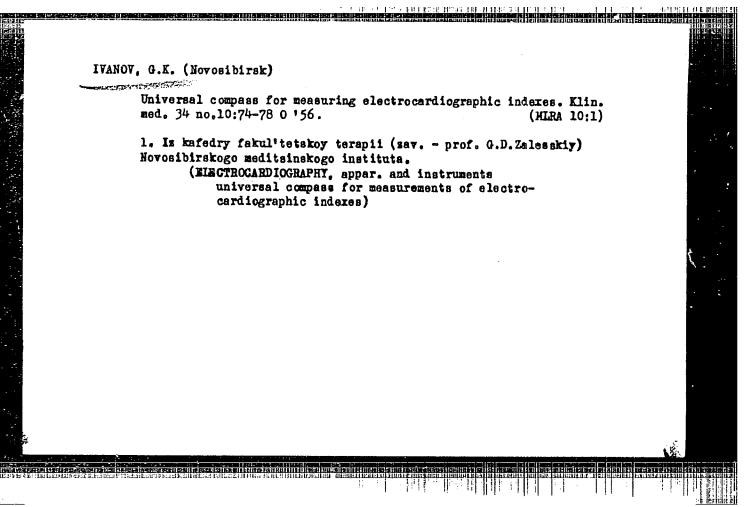
OTHER: 003

IVANOV, G.K.

Photoelectric method of registration of results of investigation. Klin. med., Moskva 29 no.11:88-89 Nov 1951. (CIML 21:2)

1. Of the Faculty Therapy Staff (Head -- Prof. G. D. Zalesskiy), Novosibirsk Medical Institute.





CIA-RDP86-00513R000619030001-1 "APPROVED FOR RELEASE: 08/10/2001

USSR / General Problems of Pathology. Pathological Physiology of Infectious Processes.

U-3

Abs Jour : Ref Zhur - Biol., No 17, 1958, No 80265

Author

Ivanov, G. K.

Inst

: Not given

Title

: Cardiotoxic Properties of Blood Serum of Rheumatic Patients.

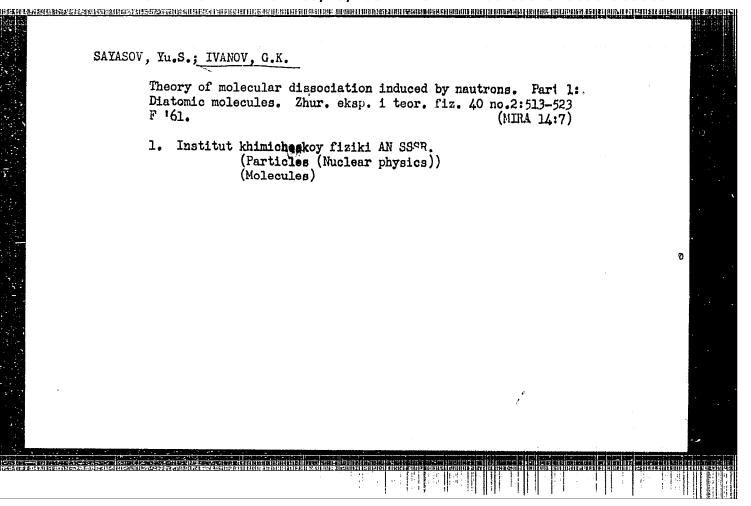
Orig Pub : Tr. Novosibirskogo med. in-ta, 1957, 27, 166-176.

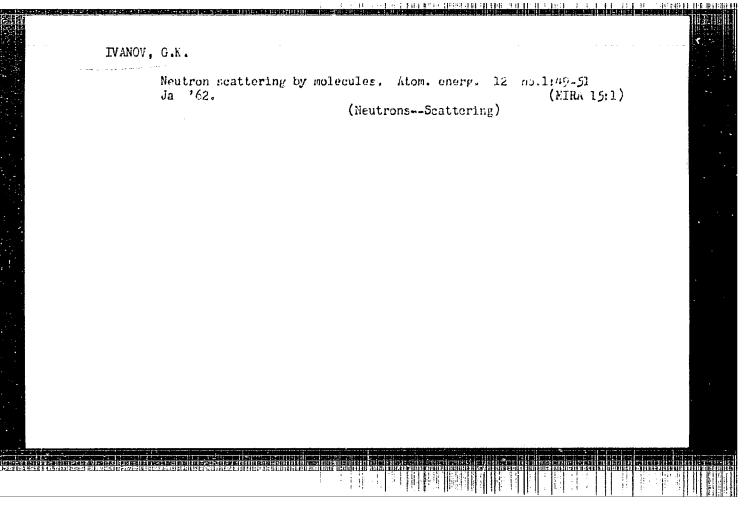
Abstract : The intravenous introduction in rabbits of 2-4 ml/kg of the serum of healthy and rhturatic patients (RP) caused a shock reaction which was sometimes fatal. The reaction was accompanied by changes of the EGG in the form of rhythm impairments, deformation of the complex RS, changes of the form of T wave; and sometimes fibrillation of the ventricles with their subsequent stoppage occurred. Through 12 hours after coagulation, the serum taken from healthy and RP in the period between attacks lost the cardiotoxic properties;

Card 1/2

Chair of Faculty Therapy, Movosibirsk Med Inst.

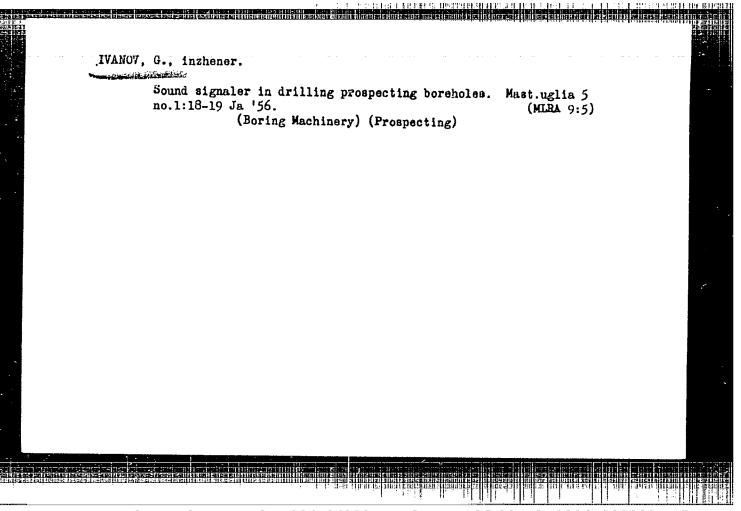
APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619030001-1"

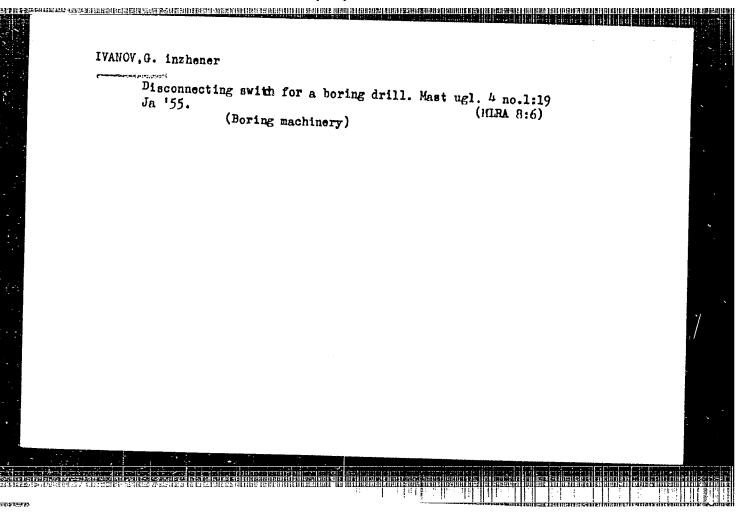




Card 1/1	* Pub. 12 - 7/14
Authors	Ivanov, G. L.
71420	Semi-automatic broaching of differential stdd-gear teeth
Periodical	# Avt. trakt. prom. 5, 23-24, May 1954
	140. 01 acc. brom. 3, 23-24, May 1334
Abstract	A narrative report is presented concerning broaching of differential side-gear teeth on a vertical-type semi-automatic broaching-machine. A general description of the broaching operation is given, together with diagrams depicting the disposition of individual machine components.
	A narrative report is presented concerning broaching of differential side-gear teeth on a vertical-type semi-automatic broaching-machine. A general description of the broaching operation is given, together with diagrams depicting the disposition of individual machine components.
Abstract	A narrative report is presented concerning broaching of differential side-gear teeth on a vertical-type semi-automatic broaching-machine. A general description of the broaching operation is given, together with diagrams depicting the disposition of individual machine components.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619030001-1"





IVANOV.G. inzhener

Device for the manufacture of pump cups. Mast. ugl. 4 no.3:23 Mr '55.

(Mine pumps)

KRUPSKIY, A.S.; IVANOV, G.M., kandidat tekhnicheskikh nauk, redaktor.

[Project work for course credit and for the diploma in construction engineering technical schools; industrial and public building construction] Kursovee i diplomnee prosktirovanie v stroitel'nykh tekhnikumakh; promyshlennee i grazhdanskoe stroitel'stvo. Leningrad, Gos. izd-vo lit-ry pc stroitel'stvu i arkhitekture, 1952. 150 p. (HLRA 7:4)

(Building--Problems, exercises, etc.) (Architecture--Designs and plans)

USSR/Farm Animals. - Cattle

Q-2

Abs Jour: Rof Zhur - Biol., No 6, 1958, No 26145

Author

: Ivenov G.M.

Inst

: Not Givon

Title

: The Composition of the Milk of the Hybrid Cows Resulted from the Crossing of the Local Cattle End the Kholmogory Breed (Sostav noloka korov-ponessey mestnogo skota s khalmogorskoy

porodoy)

Orig Pub : Tr. Komi fil. AN SSSR, 1956, No 4, 84-89

Abstract : The milk of 6 hybrid cows of the I-III generations studied during a period of full lectation is characterized by the following mean indexes: (in %): butterfat 3.76; protein 3.87; lactic sugar 4.83; ash 0.71; Ca 0.128; P 0.09; dry substance 12.95; density of the milk 31°; size of the butterfet globules

3.17m.

Cerd : 1/1

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619030001-1"

MAKEYEV, O.V., prof., otv. red.; TCKOVOY, N.A., prof., red.; YEFIMOV, M.V., dots., red.; BAKHANO A, S.G., red.; IVANOV, G.M., red.

[Biological role of microelements in the organism of man and animals in eastern Siberia and the Far East; transactions of the conference in Ula-Ude in February of 1962] Biologicheskaia rol' mikroelementov v organizme cheloveka i zhivotnykh Vostochnoi Sibiri i Dal'nego Vostoka; trudy konferentsii, g. Wlan-Ude, fevrul' 1962 g. Ulan-Ude, Buriatskii kompleksnyi nauchno-isslin-t, 1963. 162 p. (MIRA 18:1)

1. Buryatskiy kompleksnyy nauchno-issledovatel ckiy institut (for Yefimov, Bakhanova).

KUNITSKIY, Nikolay Petrovich, kand.tekhn.nauk, dotsent; IVANOV, Geliy
Mikhaylovich, starshiy nauchnyy sotrudnik

Transient processes in an ionic generator excitation system.

Izv. vys. ucheb. zav.; elektromekh. 3 no.12:2-13 '60.

1. Kafedra elektrifikatsii promyshlennykh predpriyatiy Vsesoyuznogo
zaochnogo politekhnicheskogo instituta (for Kunitskiy). 2. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (for

(Electric generators)
(Magnetic amplifiers)
(Electric current rectifiers)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619030001-1"

20706

9.4200

S/120/61/000/001/044/062 E194/E184

AUTHORS:

Smirnov, S.A., and Ivanov, G.M.

TITLE:

A Water Load for High Power, High Voltage Impulse

Modulators

PERIODICAL: Pribory i tekhnika eksperimenta, 1961,No.1,pp.145-147

TEXT: When testing large klystrons and magnetrons an active resistance load is often required. This resistance should have low stray inductance and capacitance; wire resistors are not very satisfactory and the best results can be obtained by using a column of flowing water. In designing a water loading resistance it is necessary to have information about the electric strength of water under impulse conditions, and the variation of resistance with temperature. Not enough information has been published about this. Accordingly, measurements were made of the conductivity and electric strength of a column of flowing water contained in a smooth cylindrical tube of porcelain, vinylplast or glass and flat smooth cylindrical electrodes. The measurements were made over the voltage range of 30 to 350 kV with an impulse length of 3.0 microseconds to half value. The source of voltage was the

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619030001-1"

S/120/61/000/001/044/062 E194/E184

A Water Load for High Power, High Voltage Impulse Modulators modulator for an impulse klystron amplifier. The impulse wave shape was measured on oscillographs with capacitative voltage dividers with an error of ± 10%. Under these conditions water is found to break down over the inner surfaces of the solid Fig.1 shows the relationship between the breakdown voltage of water and the length of the surface of the dielectrics using a variety of electrode metals and solid dielectrics. surface lengths up to 10 cm the breakdown voltage gradient is about 30 kg/cm. The breakdown gradient is practically independent of the material from which the electrodes or insulating cylinders The relationship between specific resistance of water and temperature is shown in Fig. 2. From the data given in Figs.1 and 2 it is possible to design a load resistance. For the majority of practical cases the value of load resistance may be calculated by determining the resistances corresponding to the inlet and outlet temperatures and taking the mean. the construction of a loading resistance designed for a voltage Fig. 3 shows of 350 kV and a current of 200 A with a pulse duration of

S/120/61/000/001/044/062 E194/E134

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A Water Load for High Power, High Voltage Impulse Modulators

5 microseconds and repetition frequency of 50 c/s. The upper flange is earthed and the high voltage is applied to the lower flange. Prolonged operation of the loading resistances under rated conditions has shown that the design is reliable and gives good service life of 500 hours without major overhaul. The main water used has a specific resistance are obtained only if the thousands of ohms per cm. The characteristics given above were

Acknowledgements are expressed to P.G. Gurtovenko for making the drawings.

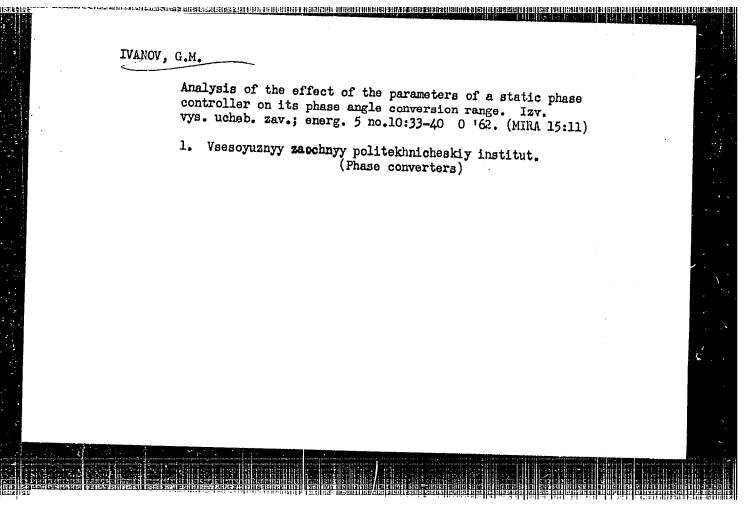
There are 3 figures and 4 references: 2 Soviet and 2 non-Soviet.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN USSR

(Physico-technical Institute, AS Ukr.SSR)

SUBMITTED: February 12, 1960

Card 3/5



KUNITSKIY, Nikolay Petrovich, doktor tekhn.nauk, dotsent; IVANOV, Geliy Mikhaylovich, aspirant

Selection of the parameters of a static phase regulator. Izv.vys. ucheb.zav.; elektromekh. 5 no.10:1145-1159 162. (MIRA 15:11)

1. Kafedra elektroobbrudovaniya promyshlennykh predpriyatiy Vsesoyuznogo zaochnogo politekhnicheskogo instituta (for Kunitskiy). 2. Vsesbyuznyy zaochnyy politekhnicheskiy institut (for Ivanov).

(Phase converters) (Mercury-arc rectifiers)

TO THE PROPERTY OF THE PROPERT

KUNITSKIY, N.P.; IVANOV, G.M.

Current regulator in the electric drive of a reversive rolling mill with electronic generator excitation. Izv. vys. ucheb. zav.; elektromekh. 7 no.6:714-723 '64. (MIRA 17:7)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619030001-1"

KUNITSKIY, N.P., doktor tekhn.nauk; IVANOV, G.M., kand.tekhn.nauk; ECHONOV, N.G., inzh.

Transient processes in systems with reversive ionic electric drives. Elektrichestvo no.11:33-37 N 64.

1. TSentral nyy nauchno-issledovatel skiy institut chercoy metallurgii imeni Bardina.

(MIRA 18:2)

ACCESSION NR: AP4043618

S/0056/64/047/002/0473/0475

AUTHORS: Yurasova, V. Ye.; Brzhezinskiy, V. A.; Ivanov, G. M.

TITLE: Anisotropy of reflection of argon ions from single crystal copper

copper

SOURCE: Zh. eksper. i teor. fiz., v. 47, no. 2, 1964, 473-475

TOPIC TAGS: argon, copper, anisotropy, crystal lattice structure, single crystal, cubic crystal, ion bombardment

ABSTRACT: This investigation was undertaken to check on an earlier grapho-analytic calculation made by one of the authors (V. Ye. Yurasova, Izv. AN SSSR, seriya fiz., v. 28, 9, 1964). According to this calculation, the projections of the reflected-ion-yield maxima on the (100) plane should lie symmetrically on both sides of each of the close-packing directions [110] and [100] in that plane, and the angular separation between them should be ~45°; the reflection

Card 1/4

ACCESSION NR: AP4043618

minima should correspond to the directions [110] and [100]. To check this hypothesis, the angular distribution was investigated of the ions reflected following bombardment of a (100) surface of a copper single crystal with argon ions at ~1.5 keV energy. The test setup is briefly described. The results have shown that the regularity of the crystal lattice influences the intensity of the ion reflection. The minimum of the reflection is observed in the direction of close atomic packing [110] and [100], with the ion reflection having a maximum between these two directions. The results obtained are in good agreement with the conclusions of the earlier grapho-analytic calculations and can be interpreted by assuming that the ions penetrate open channels along the close-packing directions in the face-centered cubic lattice. Orig. art. has: 2 figures.

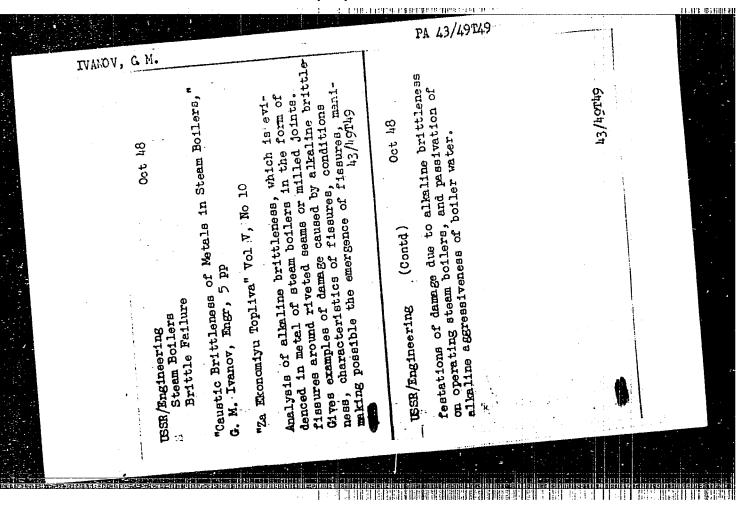
ASSOCIATION: Moskovskiy gosudarstvenny*y universitet (Moscow State University)

Card 2/4

ACCESSION NR: AP4043618

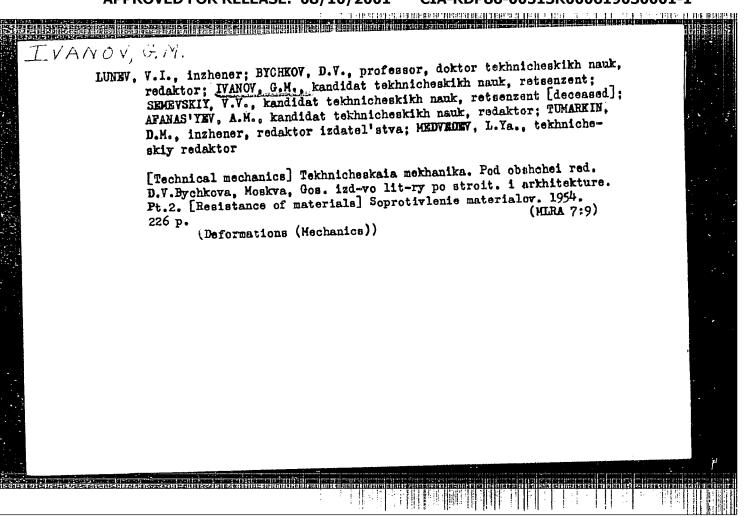
SUBMITTED: 20Mar64 ENCL: 01

SUB CODE: NP, SS NR REF SOV: 001 OTHER: 006

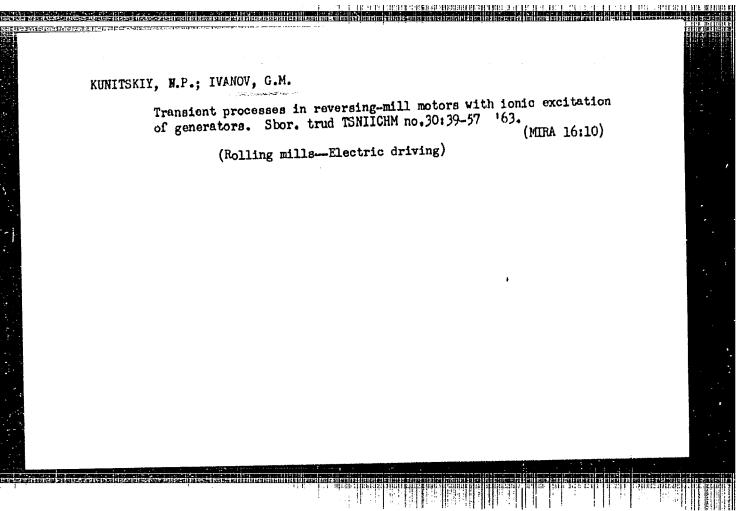


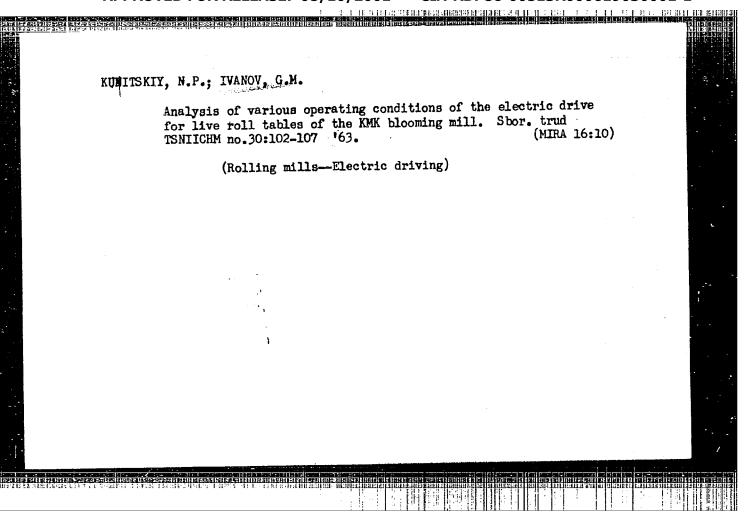
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IVANOV, G. M. "Collected Problems on Technical Mechanics," by M. P. Efremov, G. M. Ivanov and I. S. Shapiro, and authorized by the Administration for Higher Education of the Ministry of Manufacturing and authorized by the Administration for Higher Education of the Ministry of Manufacturing and authorized by the State Publishing to be used as a textbook in Manufacturing Institutes. Published by the State Publishing House for Literature on Manufacturing and Architecture, Leningrad, 1953. Foreword	
Chapter III. Kinematics,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
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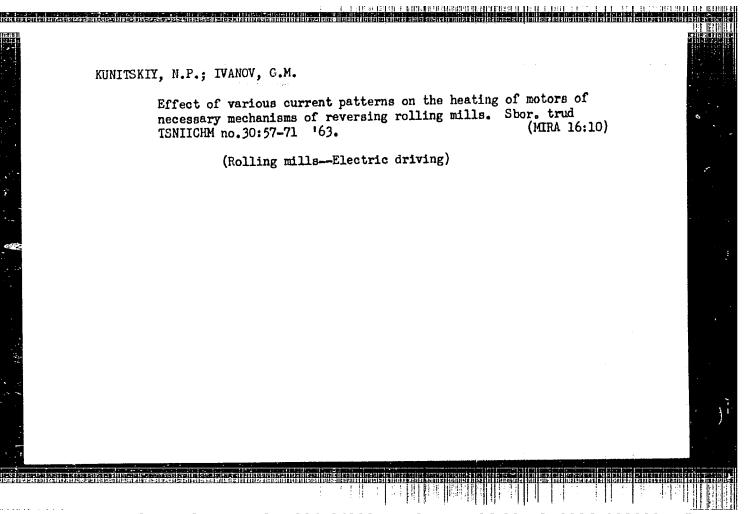
IVANOV, G. M.	#1995 22.1 February 1	
Chapter XXIII.Details of Load-Lifting Lappendix.	177 182 186 191 200 206 216 228	
struction. The problems are explained	and solutions are given.	
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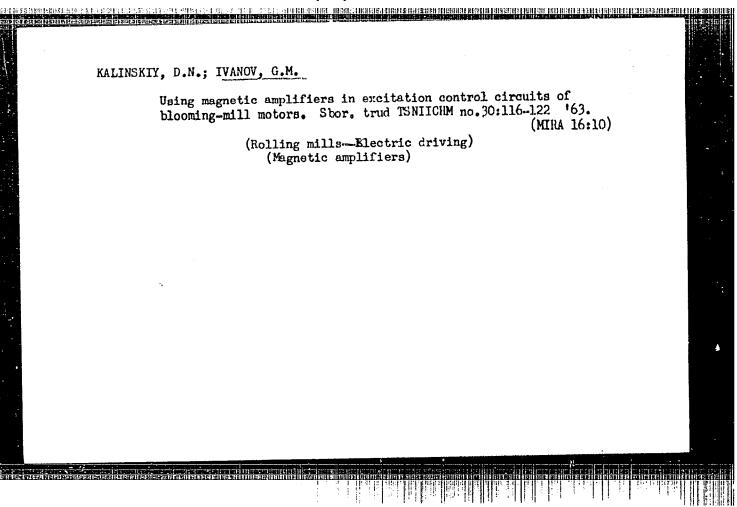


LIMINOL, SA. BOOLY 1111 Kl207 & W. 67 BYCHKOV, D.V., doktor tekhn.nauk, prof.; MIROV, N.O.; LUNEV, Vasiliy Ivanovich, kand. tekhn. nauk, dots.; Ivanovich, Mikhaylovich, kand.tekhn.mauk.; PAVLOV, B.P., prof., doktor tekhn.mauk, retsenzent; KOBETS, L.G., kand.tekhn.nauk, retsenzent; UDOVENKO, S.A., inzh., retsenzent; BOGOMOLOV, G.I., inzh., retsenzent; BORODINA, I.S., red. izd-va; KAPLAN, M.Ya., red.izd-va; PARSON, M.N., tekhn. red.: UL'KINA, Ye.A., tekhn.red. [Engineering mechanics] Tekhnicheskais mekhanika. Pod obshchei red. D.V. Bychkova. Moskva, Gos.izd-vo lit-ry po stroit. i arkhit. Pt.1. Bychkov, D.V., and M.O.Mirov [Theoretical mechanics] Teoreticheskeia mekhanika. Izd. 2-oe. 1957. 282 p. Pt.2. Innev, V.I. [Resistance of materials] Soprotivlenie material.v. Izd. 2-oe, perer. 1957. 255 p. Pt.3. Ivanov, G.M. [Statics of structures] (MIRA 11:2) Statika sooruzhenii. 1957. 226 p. (Mechanics, Applied) (Strength of materials)



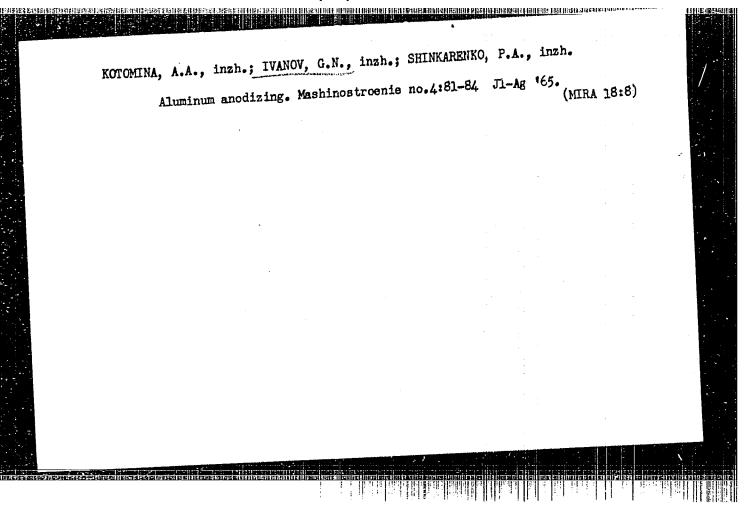


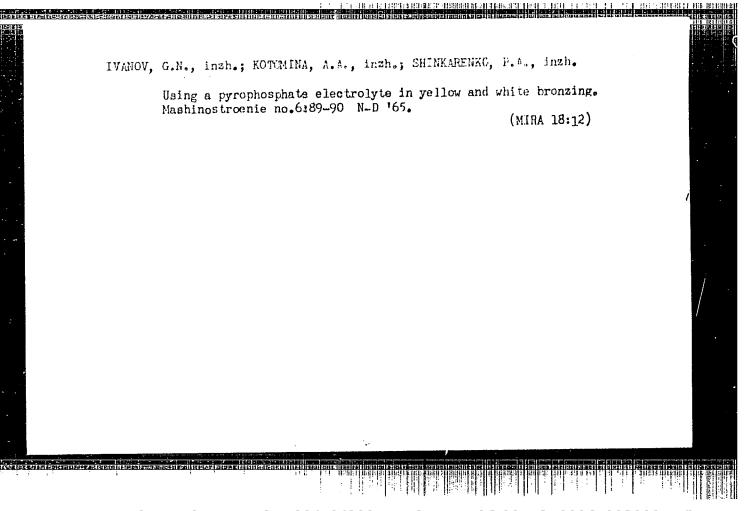


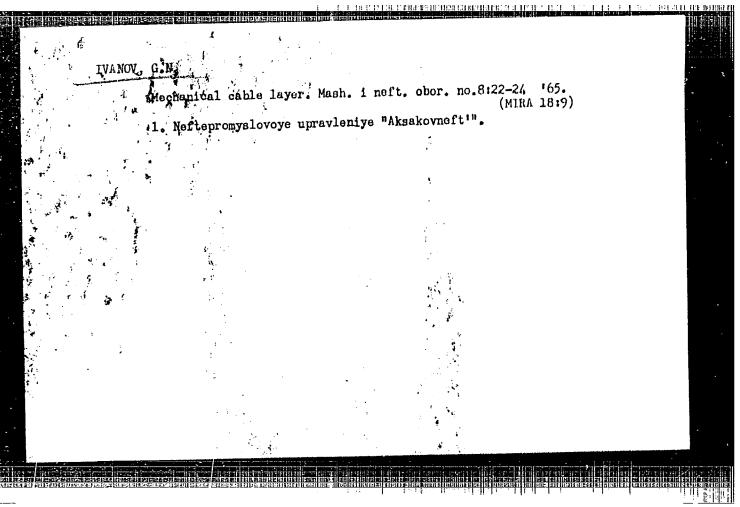


CRISHKOV, A.I.; FEDOROV, Yu.K.; LOKTIONOV, G.I.; IVANOV, G.M.

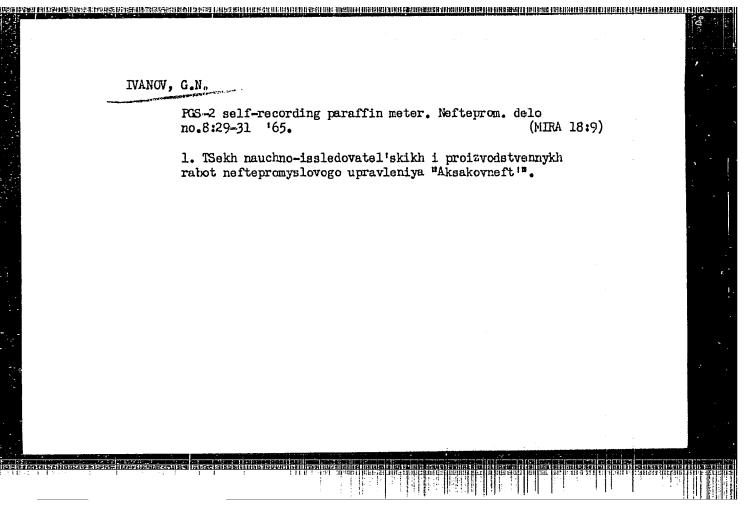
Investigating the coefficient of resistance to the movement of a strip along the roller table. [Sbor. trud.] TSNIICHM no.29:113-120 (MIRA 17:4)

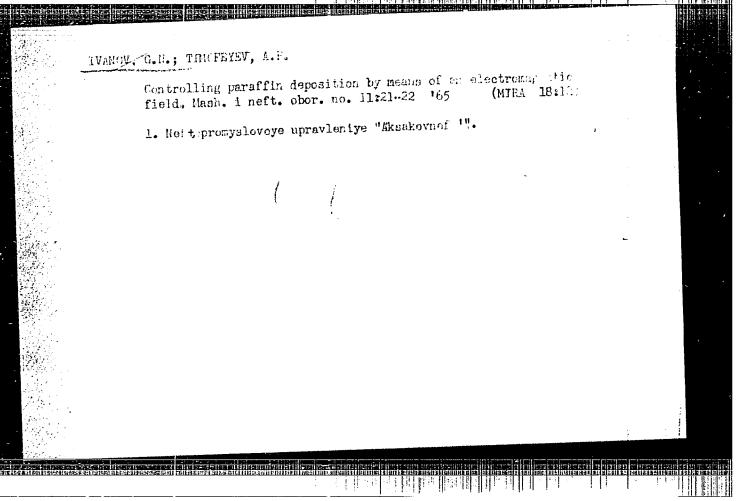


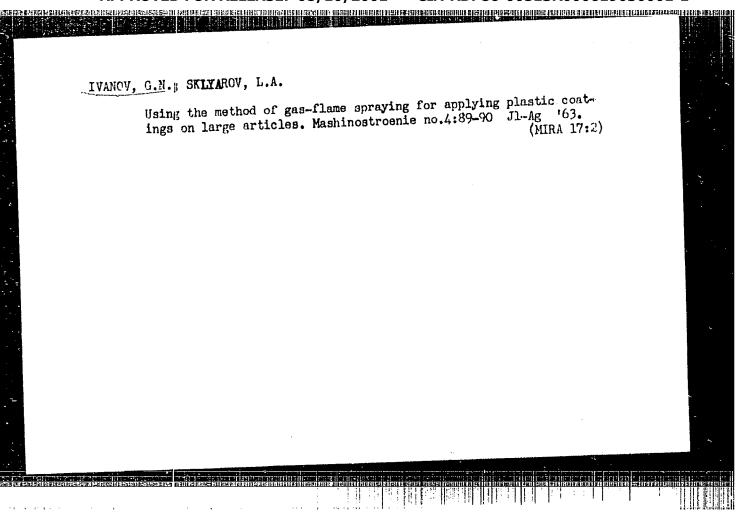


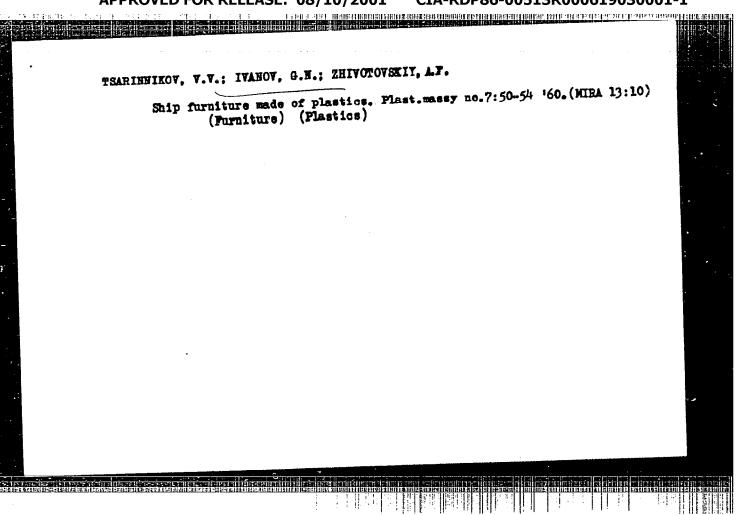


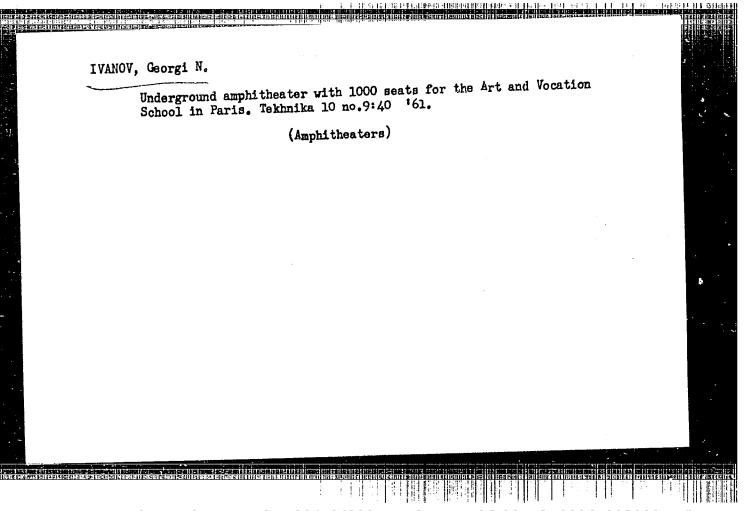
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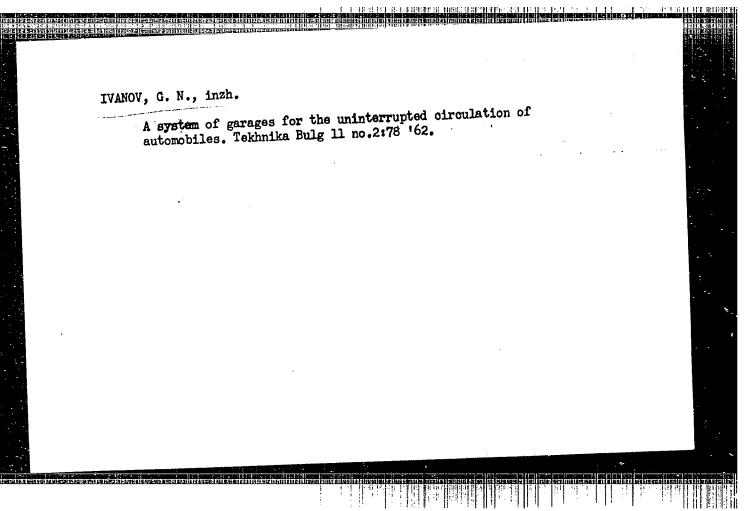










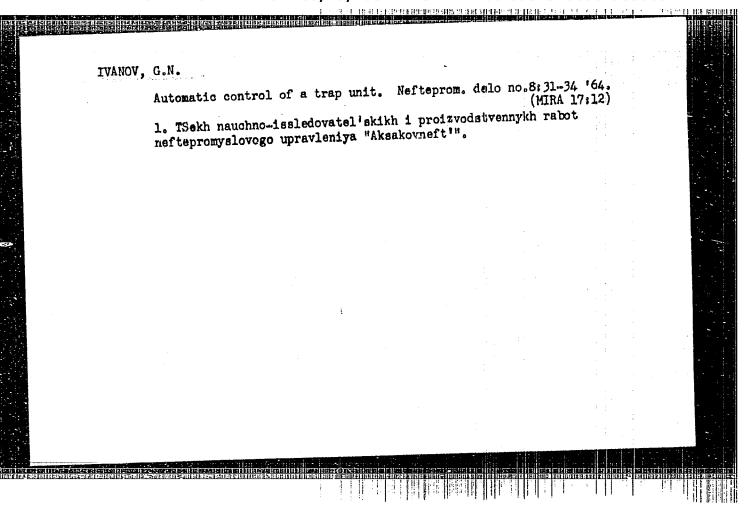


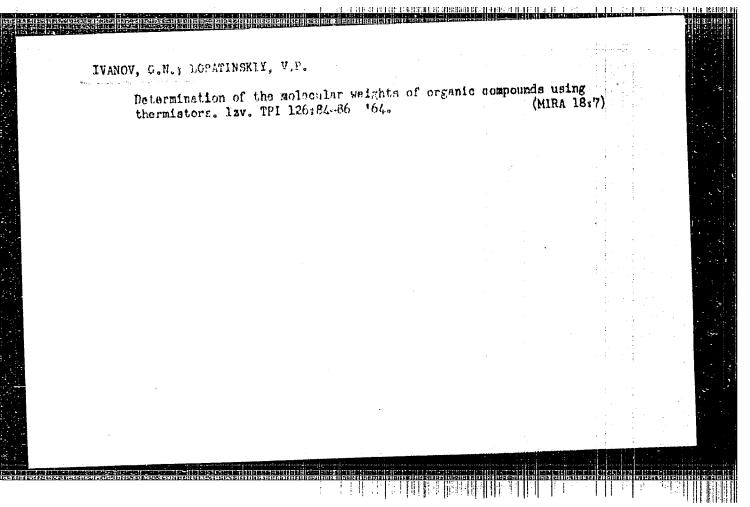
ISANGULOV, K.I.; KAGAN, Ya.M.; IVANOV, G.N.; KAMALOV, A.R.

Using electric sinking pumps in wells with damaged production casing. Nefteprom. delc no.4:11-12 '64.

(NIRA 17:6)

1. Neftepromyslovoye upravleniye "Aksakovneft".





1 05012-67 EWE(E) 1JF(c)

ACC NR. AR6031250

SOURCE CODE: UR/0081/66/000/011/D043/D043

AUTHOR: Ivanov, G. N.; Budayeva, V. A.; Lopatinskiy, V. P.

TITLE: Determination of the molecular weight of organic compounds by electrical

measuring circuits

SOURCE: Ref. zh. Khimiya, Part I, Abs. 11D75

REF SOURCE: Izv. Tomskogo politekhn. in-ta, no. 136, 1965, 106-109

TOPIC TAGS: molecular weight, organic compound, electric measurement

ABSTRACT: A simple and convenient diagram has been developed for determining the molecular weights of organic compounds with the use of thermistors as the thermosensitive elements. The method is characterized by high reproducibility, by rapid determination (15—20 min), by freedom from constant manual operations, and by high accuracy (1—3% relative error). One of the diagrams developed permits automation of the process for determining the molecular weight. Authors' summary. [Translation of abstract]

SUB CODE: 20/

Card 1/17()

IVANOV, G.O.

36349 Opyt zalozheniya postoyannykh probnykh ploshchadey (Lesnykh kul'tur) v krymskom zapovednike. Nauch-metod zapiski (Sovet ministrov rafar, glav. upr. po zapoved-nikam.) Vyp. 12, 1949, S. 71-73

SO: Latopis! Zhurnal! nykh Statey, No. 49, 1949

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619030001-1

. Vanovit. USSR/Forestry - Forest Economy. K-4

Abs Jour

: Ref Zhur - Biol., No 3, 1958, 10589

Author

Ivanov, G.

Inst

: Methods of Insuring Natural Reproduction of Oaks from Seed

Title

Zemledeliye i zhivotnovodstvo Moldavii, 1956, No 7, 68-72

Orig Pub

Abstract

The reasons are given for the death of self-seeded oak sarlings (in oak forests), and particularities of the development of self-seeding oaks after the forest has been cut down are described (Kupriyanovskoye and Orgeyevskoye Forest Economies, Moldayia). Oaks which sprout form seed

under other fully-grown oak trees die out from lack of light and water. If the trees are thinned out (to a density of 0.6) and the underbrush removed, the shoots survive much better. A description is given of methods of cutting which ensure maximum preservation of seedlings on the lumbering area. In the author's opinion, normal natural

Card 1/2

Card 2/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619030001-1

: USE COUNTRY : Forestry. Forest Cultures. CATEGORY ABS. JOUR. RZhBiol., No. 14 1959, No. 63240 AUTHOR Ivanov, G. C. Orimean State Reservation Stayer Smale in the Forest Thinning on Outsropping Stayer Smale in the INST. TITLE Crimea : Fr. Krymsk. gos. zapovedn., 1957, 4, 73-96 ORIG. PUB. : Clayey shales which crop out on the surface are found both on the southern seacoast of the Trimes and at the ABSTRACT foot of the northern slope of the main mountain chain. Brown mountain-forest soils are the predominant soil type on the clayey shales; here, depending on local conditions, low site-quality pine-jumiper and oak-ash plantations, hornbeam-oak forests and forests, and others grow. The whole complex of strongly denuded forest brown soils, and weakly developed brown soils and shale exposures, is populated in a natural manner by pine. On slaty outcroppings and the soils associated with them, forest cultures have been established for lished for the last 44 years, principally of Grimean Card: 1/3 "Fernihhu hornhoam ; sae note on 622107

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HST. :
ITLS :

RIG. PUB. :
BSTPAST : on the agrotechny of cultures on areas of varying streems are presented, using mechanization and explosives.--I. A. Sashkirev

ard: 3/3

USSR / Forestry. Forest Crops.

K-3

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24917.

Author Ivanov, G. O.

Inst : Not given.

: Experiments in Afforestation of the Crimean Upland (Yay1). Title

Orig Pub: Tr. Krymsk. gos. zapovedn., 1957, 4, No 97 - 106.

Abstract: No abstract.

Card 1/1

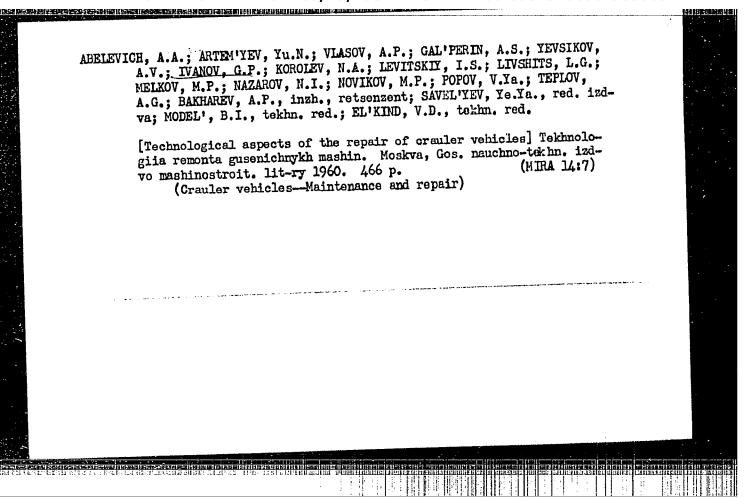
49

IVANOV, GL P., LYUBOV, B. Ya.

Heat - Radiation and Absorption

Heating a motionless layer speheres with a stream of hot gas. Dokl. AN SSSR 86 no. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.



OLESYUK, Denis Ivanovich; IVANOV, Georgiy Petrovich; SHERIKH, M.D., otv. red.; MAZURKEVICH, M., red.izd-va; LEHEDEV, A., tekhn. red.

[Special features of the work analysis of supply and sale organizations]Osobennosti analiza raboty snabzhenchesko-sbytovykh organizatsii. Moskva, Gosfinizdat, 1962. 65 p.

(MIRA 16:3)

(Industrial procurement—Auditing and inspection)

MALINOVSKIY, V.A., prof., doktor tekhn.nauk; IVANCHENKO, O.Ya., inzh.;
IVANOV, G.P., inzh.

Flotation and gravitation method of high-sulfur coal preparation.
Obog.i brik. ugl. no.21:66-74 '61. (MIRA 16:5)
(Coal preparation)

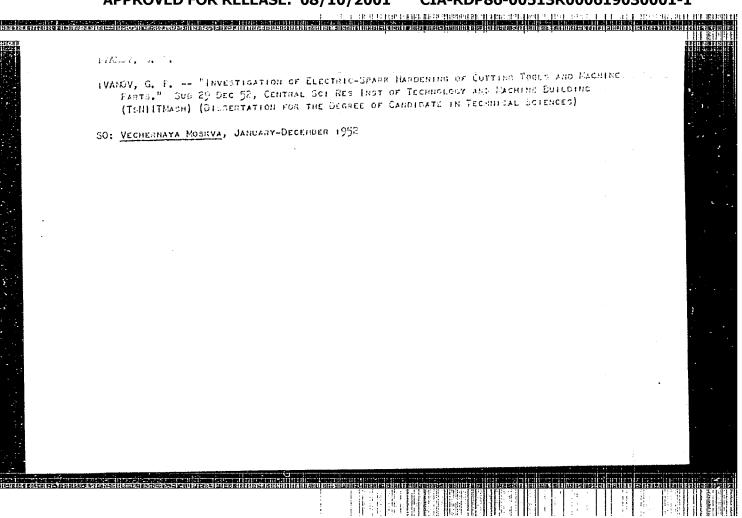
IVANOV, Georgiy Petrovich; GUSARCHUK, D.M., red.; MYAKUSHKO, V.P., red.izd-va; SHIBAKOVA, P.Ye., tekhn. red.

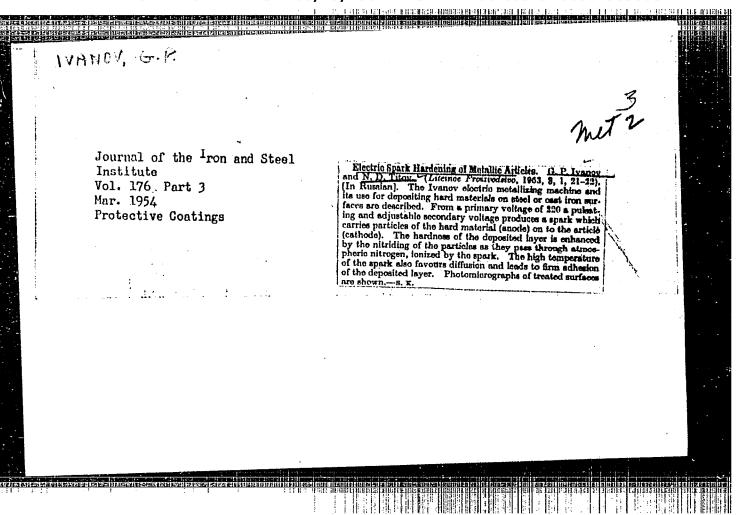
[Recent developments in the technology of the Antropovo Logging Camp; practices in the biological drying of the wood of hardwood species] Novoe v tekhnologii Antropovskogo lespromkhoza; iz opyta biologicheskoi sushki drevesiny listvermykh porod. Moskva, Goslesbumizdat, 1962. 34 p. (MIRA 17:4)

IVANOV, G.P.

Elektroiskrovoe uprochnenie rezhushchikh instrumentov (Electric spark hardening of cutting tools). Moskva, ITEIN, 1951. 70 p.

SO: Monthly List of Russian Accessions, Vol. 6, No. 1, April 1953





USSR/ Engineering - Metal hardening 1/1 Card : Pub. 128 - 17/31 Authors : Ivanov, G. P. : Electric-spark casehardening of machine parts with the IE-2 apparatus Title Periodical : Vest. mash. 10, 72 - 75, Oct 54 : A description is presented of an electric-spark apparatus, Type IE-2, Abstract for casehardening of machine parts and cutting tools. Divetration and diagrams depicting the above mentioned apparatus are given, together with technical specifications. Table; graphs. Institution : The Central Scientific-Investigational Institute for Hackins Technology Submitted

Lunney G. T.

USSR/Solid State Physics - Mechanical Properties of Crystals and Polycrystalline Compounds, E-9

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34889

Author: Ivanov, G. P., Belyanin, V. A., Borisova, V. V.

Institution: None

Title: Effect of Annealing on Frances of Surface Layer Strengthened by the Electric-Spark Method

Periodical: Metallovedeniye i obrabotka metallov, 1955, No 4, 48-51

Abstract: The annealing stability of reinforced layers, obtained on specimens made of 45 steel by electric-spark processing using the IE-2M apparatus was determined (Ivanov, G. P., Vest. Mashinostroyeniya, 1954, No 10). The electrodes used were: hard T15K6 alloy, ferrochrome, ferroboron, tungsten, chromium, and nitrided chromium (4% N). The microhardness of the reinforced layer was determined prior to annealing using metallographic sections and the PMT-3 instrument with a loading of 50 g.

The layers having the highest microhardness were those obtained with

Card 1/2

USSR/Solid State Physics - Machanical Properties of Crystals and Polycrystalline Compounds, E-9

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34889

Abstract: the T15K6-alloy electrodes (1,260 kg/sq mm and those of ferroboron (1,000 kg/sq mm). All specimen were broken up into groups and subjected to-annealing at 300, 500, 700, and 800 degrees for 2 hours. Curves are given for the variation of the microhardness of the layers obtained with various electrodes vs the annealing temperature.

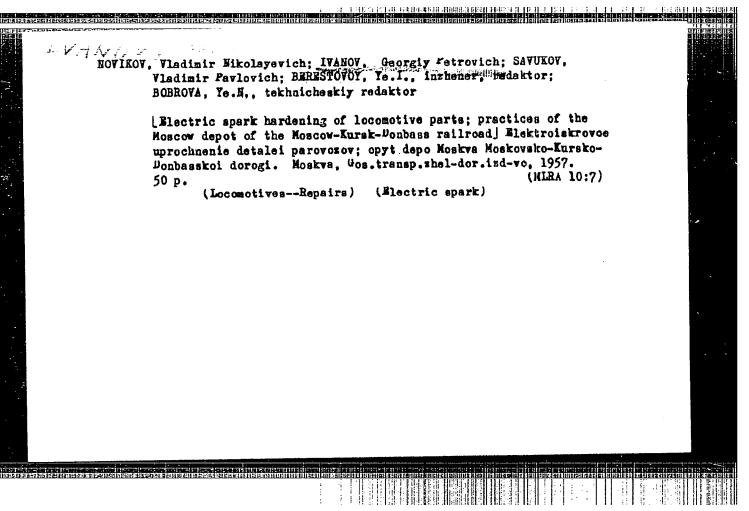
Card 2/2

IVANOV, C.P., kandidat tekhnicheskikh nauk; SAVUKOV, V.P., inshener.

Effect of electric spark hardening on wear resistance and fatigue strength. Metalloved.i obr.met. no.6:52-56 D '55. (MLEA 9:3)

1. TSentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya.

(Steel--Electrometallurgy) (Electric spark)



"APPROVED FOR RELEASE: 08/10/2001 Fatravich INDROV, Georgiv 29 PHASE I BOOK EXPLOITATION Ivanov, Georgiy Petrovich, Candidate of Technical Sciences Tekhnologiya elektroiskrovogo uprochneniya instrumentov i detaley mashin (Technology of Electric Spark Hardening of Tools and Machine Parts) Moscow, Mashgiz, 1957. 187 p. 7,000 copies printed. Reviewer: Popilov, L. Ya., Engineer; Ed.: Astaf'yev, S. S.,

Candidate of Technical Sciences; Technical Ed.: Uvarova, A. F.,

Managing Ed. for literature on transport, highway and power

machine building (Mashgiz): Voskresenskiy, N. N., Engineer. This monograph is intended for engineers, technicians, foremen, and electrotechnologists employed in machinery PURPOSE: plants. The book 1) explains the basic problems of electro-spark hardening (nature of process, technology, and the hardening technique), 2) describes new electro-spark equipment COVERAGE: developed by TSNIITMASH (Central Scientific Research Institute for Heavy Machine Building), 3) presents the Card 1/7

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Technology of Electric Spark (Cont.)

29

theoretical, physical and metallographic principles of electrospark hardening, and 4) on the basis of numerous experiments determines the special physical properties and describes mechanical tests of hardened specimens. Furthermore, the book introduces electro-spark hardening technology developed on the basis of physical parameters of the process, describes the practical application of the technology to hardening of tools and machine parts, and explains full-scale testing of various hardened machine parts. Pages 15-18 present basic data on the application of the electro-spark hardening method at the Kirovskiy Zavod (Kirov Plant) in Leningrad, at GAZ (Gor'kiy Automobile Plant imeni Molotov), Uralmashzavod (Ural Heavy Machinery Plant) and Uralvagonzavod (Ural Railroad-car Plant). The new electro-spark hardening machines EAI-1 single-electrode), IYe-2, IYe-2M, IAS-2M (five-electrode) developed by TSNIITMASH during 1954-1957 are compared with the KEI-1 and the UPR-3M. Persons assisting the author in the TSNIITMASH laboratory experiments were: Senior Engineer V.P.Savukov, Foreman A.D.Bondarev, Candidate of Technical Sciences S.S. Astaf'ev, Engineer V.V. Borisova, and Foreman A.S. Yeremin. The bibliography lists 48 references, all of them Soviet.

Card 2/7

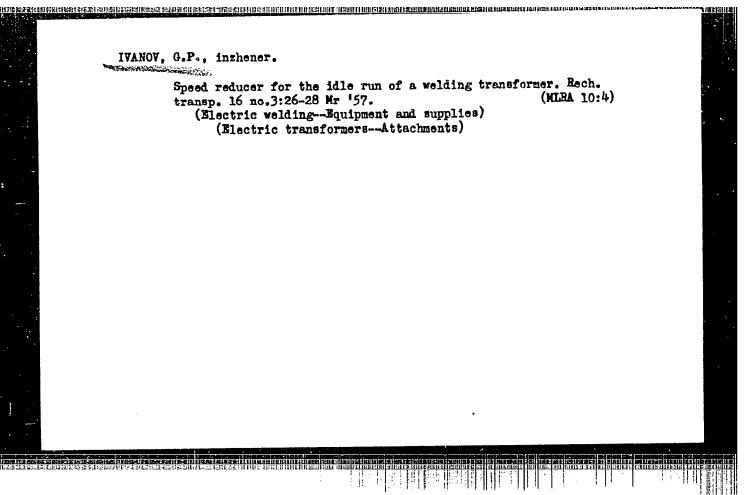
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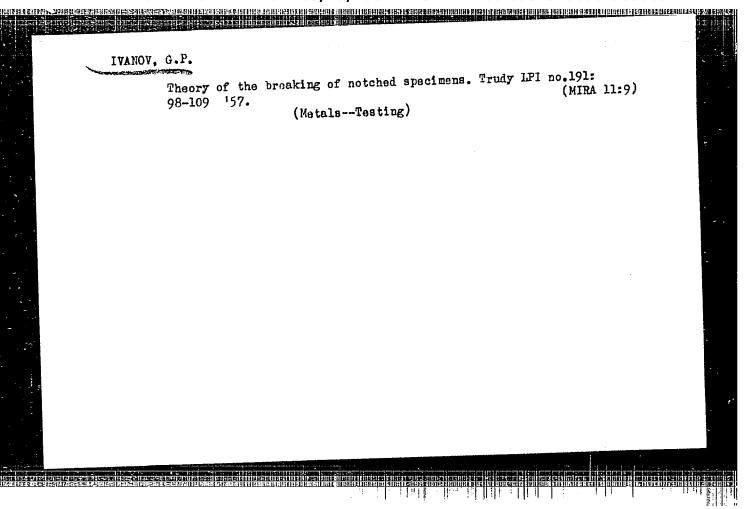
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IVANOV

ABRAMOVICH, I.I., prof., ANBINDER, A.G., inzh., ANTOSHIN, Ye.Y., inzh., ARKHANGEL'SKIY, L.A., inzh., ASTAF'YEV, S.S., kand. tekhn. nauk, AFANAS'YEV, L.A., inzh., BARGSHTEYN, I.I., inzh., BCRISOV, Yu. S., inzh., red., BYALYY, I.L., inzh., VETVITSKIY, A.M., inzh., GERSHMAN, D.Kh., inzh., GINZBURG, Z.M., inzh., GOROSHKIN, A.K., inzh., YEVDOKIMCHIK, Kh.I., inzh., ZHIKH, V.A., kand. tekhn. nauk, ZABYVAYEV, Ye. I., kand. tekhn. nauk, [deceased], ZOBIN, V.S., inzh., IVANOV, G.P., kand. tekhn. nauk, KAPRANOV, P.N., inzh., KONDRATOVICH, V.M., inzh., KOSTEREV, S.K., inzh., KOVAL'SKIY, N.N., inzh., KRUGLYAK, V.M., inzh., LUKYANOV, T.P., inzh., LAPIDUS, A.S., kand. tekhn. nauk, LIVSHITS, G.A., kand. tekhn. nauk, LISHANSKIY, I.M., inzh., MIGALINA, Ye.Ya., inzh., NOSKIN, R.A., kand. tekhn. nauk, PRONIKOV, A.S., doktor tekhn.nauk, REGIRER, Z.L., kand. tekhn. nauk, RUDYK, M.A., inzh., SOKOLOVA, N.V., inzh., SAKLINSKIY, V.V., inzh., SAKHAROV, V.P., inzh., TOKAR', M.KH., inzh., TKACHEVSKIY, G.I., inzh., KHRUNICHEV, Yu.A., kand. tekhn. nauk, TSOPIN, K.G., inzh., red.; SHEYNGOL'D, Ye. M., inzh., SOKOLOVA, T.F., tekhn. red.

[Handbook for machinists of machinery plants in two volumes] Spravochnik mekhanika mashinostroitel'nogo zavoda v dvukh tomakh. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry. Vol. 2.[The technology of repair work] Tekhnologiia remonta. Otv. red. toma IU. S. Borisov. (MIRA 11:10)

(Machinery--Maintenance and repair)
(Machine-show oractice)

static strength of patherns with deep incisions."

Len, 1958, 13 pp (Min of Higher "ducation USSR.

Len Polytechnic Inst im M.I. Kalinin) 150 copies

(KL, 50-58, 12h)

- 63 -

s/708/59/000/002/001/008 D221/D304

AUTHOR:

Ivanove GoPoo Engineer

TITLE:

On the importance of scale factor in underout

components

SOURCE:

Lahevska Mechanicheskiy Institut. Voprosy tochnosti metallorezhushchikh stankov i mekhanicheskey obrabot-

ki, no. 2, 1959, 30 · 34

TEXT: The author discussed the problems connected with the law governing the fall of the curve of strength in the case of deep underoutting and the effect of misalignment, as well as the importance of the scale factor. Casting of low temperature melting alloys proved to be the most reliable method of producing deep and sharp undercut tings. The desired groove was obtained by placing at the junction of the steel half-moulds an insert which had a graphite deposit to eliminate metal adherence. Specimens were tested without being removed from the mould. The loading was ensured by water in a contain ner attached to the mould. The container was weighed after the fai-

Card 1/2

S/708/39/000/002/001/008 D221/D304

On the importance of scale factor ...

lure of the specimen, to determine the ultimate stress. The undergut specimens were made in tin, lead, MOC 40 (POS 40) alloy and 583 (B83) babbitt. The plotted results demonstrate that the strength in the undercut of increases with the reduction of the diameter of the groove, although the stability of the results decreases essentially in some metals. Other specimens with different dimensions were also tested, and the strength had markedly altered in a similar pattern as before. The data are tabulated. It is continued that the scale factor is decisive in the increase of strength cluded that the scale factor is decisive in the increase of strength of deeply undercut specimens. This is stated to confirm the hypothesis of T.A. Lebedev, N.N. Davidenkov (Dinamicheskiye ispytantya metallov (Dynamical Testing of Metals), ONTI, 1936) is mentioned for his contributions in the field. There are 5 figures, 3 tables and 5 Soviet bloc references.

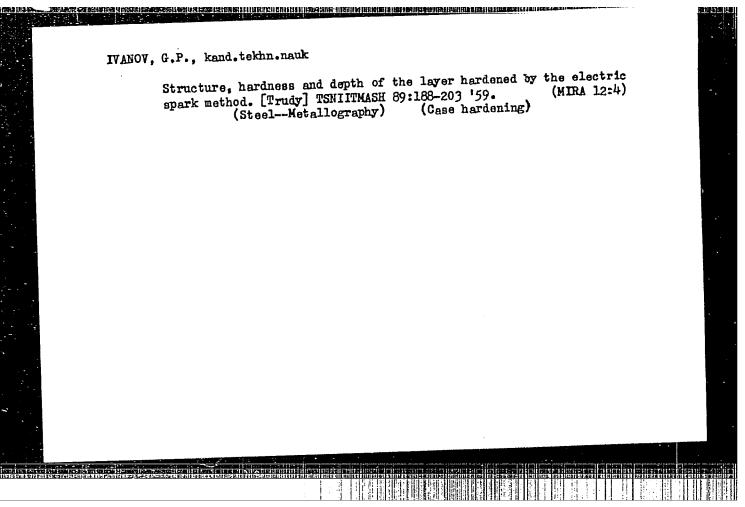
Card 2/2

507/122-59-3-40/42 AUTHOR: Ivanov, G.P. Investigation of the Static Strength of Specimens with TITLE: Deep Notches (Issledovaniye Staticheskoy Prochnosti Obraztsov S Glubokimi Nadrezami) PERIODICAL: Vestnik Mashinostroyeniya, 1959, Nr 3, p 88 (USSR) ABSTRACT: Author's summary of a dissertation, submitted to the Leningrad Polytechnic Institute (Leningradskiy Politekhnicheskiy Institut) Imeni M.I. Kalinin, for the attainment of the Degree of Candidate of Technical. Sciences. The static strength in tension of specimens with a specially deep and sharp notch was examined. The causes of the deviation of the experimental curve of the failure stress from the theoretical curves derived on the basis of the analytical investigations of G. Neuber has been considered. An evaluation is given for the scale factor in testing of specimens with deep circular Card 1/2 notches. The effect of several properties of the notch profile upon the test results has been investigated.

Investigation of the Static Strength of Specimens with Deep Notches

Based on experimental results and theoretical
generalisations, conclusions are derived on the physical
nature of the scale factor and its effect on the strength
under different conditions of conducting the tests and
after different heat treatments of the metal.

Card 2/2



ALTERNATION OF PROPERTY AND A PROPERTY OF A s/125/60/000/05/05/015 Pachentsev, Yu. A.; Tishura, V. I.; Ivanov, G. P. Small Tongs for Resistance Spot Welding | 8 PERIODICAL: Avtomaticheskaya svarka, 1960, No. 5, pp. 32-37 AUTHORS: Three new types of small-size welding "tongs" are described -Three new types of small size werding vouge and doubt zo the spot about 20 kg weight, designed for spot "K-165", "K-180", and "K-171", of about 20 kg weight, designed for spot the spot about 20 kg weight, designed for spot a s welding of steel parts with total thickness of up to 4-5 mm. The "K-165", and "K-180" and "K-180" and 2 weld 120-140 enote for minute have a present. Welding of Steel parts with total thickness of up to 4-7 mm. The Marian total thickness of up to 4-7 mm. The Marian total thickness of up to 4-7 mm. The Marian thickness of up to 4-7 mm. ic drive and are meant for large assembly shops with conveyer lines. The ng. 1711 (Fig. 3) with manual drive is for shops having no compressors. IC ULIVE SILL SEE MESTI FOR LSEE SESSEMBLY SHOPS WIVE CONVEYER LINES. IN W. 1711 (Fig. 3) with manual drive is for shops having no compressors.

The HT 166H has a huilt-in transformer (Fig. 4) The electrodes of all manual drives is for shops having no compressors. The "K-165" has a built-in transformer (Fig. 4). The electrodes of all three types are water cooled. A special flexible cable, akgpen of untrahalin works is used for the feed of electric current, compression, which is used for the feed of electric current. three types are water cooled. A special liexible carrent, Sompressed "Ukrkabel" works is used for the feed of electric current, Sompressed UNINCUEL. WORKS IS USED for the feed of electric current, 20mpress with 10 mm oross air and water. It comprises three electric cores with 10 mm oros and three ducts for water and sir; one section and one 2.5 mm core, and three ducts for water and sir; one section and one 2.5 mm core, and three ducts for water and air; one of the 40 mm cores is connected to the housing for grounding the 10 mm cores is connected to the housing for grounding.

The entire the 10 mm cores is connected to the housing for grounding. welding unit with atongo suspended on a spring palancer is shown in weraing unit with "tongs" suspended on a spring parametricle includes V Figure 6. Welding is possible in any position. Card 1/2 APPROVED FOR RELEASE: 08/10/2001 CIA-RDP8

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Small Tongs for Resistance Spot Welding

details of design and operation. The experimental works of the Electric Welding Institute produced the first lot of "K-165" in 1959, and series production will begin in 1960. The first "K-171" and "K-180" trial units will be produced during 1960. In future, the Institute will develop "tongs" of different power for special welding purposes. There are 3 photographs, 3 diagrams, and 1 Soviet reference.

ASSOCIATION: Institut elektrosvarki im. Ye. O. Patona AN USSR (Electric Welding Institute imeni Ye. O. Paton AS UkrSSR)

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